

What is claimed is:

1. Near-infrared light-absorbing glass comprising, denoted as cationic percentages, 23 to 41 percent of  $P^{5+}$ , 4 to 16 percent of  $Al^{3+}$ , 11 to 40 percent of  $Li^{+}$ , 3 to 13 percent of  $Na^{+}$ , 12 to 53 percent of  $R^{2+}$  (where  $R^{2+}$  denotes the total of  $Mg^{2+}$ ,  $Ca^{2+}$ ,  $Sr^{2+}$ ,  $Ba^{2+}$ , and  $Zn^{2+}$ ), and 2.6 to 4.7 percent of  $Cu^{2+}$ , and  $F^{-}$  and  $O^{2-}$  as anionic components.

2. The near-infrared light-absorbing glass according to claim 1, wherein the glass comprises  $Zn^{2+}$  as a cationic component;

3. The near infrared light-absorbing glass according to claim 1, wherein the glass comprises, denoted as anionic percentages, 25 to 48 percent of  $F^{-}$  and 52 to 75 percent of  $O^{2-}$ .

4. Near-infrared light-absorbing glass essentially comprising no arsenic and lead, wherein,

in the spectral transmittance of wavelengths of 400 to 700 nm, a thickness of the glass, exhibiting a property that wavelength at which a 50 percent transmittance is exhibited is 615 nm, ranges from 0.1 to 0.8 mm

as well as, at a thickness at which the glass exhibits said property,

a transmittance at a wavelength of 400 nm is 80 percent or more,  
a transmittance at a wavelength of 800 to 1000 nm is less than 5 percent, and

a transmittance at a wavelength of 1200 nm is less than 20 percent .

5. The near-infrared light-absorbing glass according to claim 1, wherein the glass has a liquid phase temperature of 750°C or less.
6. The near-infrared light-absorbing glass according to claim 4, wherein the glass has a liquid phase temperature of 750°C or less.
7. Near-infrared light-absorbing glass, wherein the glass exhibits properties, based on a thickness of 0.5 mm, in the spectral transmittance of wavelengths of 400 to 700 nm,
  - that wavelength, at which a 50 percent transmittance is exhibited, is less than 630 nm,
  - transmittance at a wavelength longer than said wavelength is less than 50 percent,
  - transmittance at a wavelength shorter than said wavelength is higher than 50 percent and
  - the viscosity at a liquid phase temperature is 0.5 Pa · s or more.
8. The near-infrared light-absorbing glass according to claim 4 which is copper-containing fluorophosphate glass.
9. The near-infrared light-absorbing glass according to claim 7 which is copper-containing fluorophosphate glass.
10. A near-infrared light-absorbing element comprised of the near-infrared light-absorbing glass according to claim 1.
11. A near-infrared light-absorbing element comprised of the near-infrared light-absorbing glass according to claim 4.

12. A near-infrared light-absorbing element comprised of the near-infrared light-absorbing glass according to claim 7.
13. A near-infrared light-absorbing filter comprising a glass plate comprised of the near-infrared light-absorbing glass according to claim 1.
14. A near-infrared light-absorbing filter comprising a glass plate comprised of the near-infrared light-absorbing glass according to claim 4.
15. A near-infrared light-absorbing filter comprising a glass plate comprised of the near-infrared light-absorbing glass according to claim 7.
16. A method of manufacturing a near-infrared light-absorbing formed glass article, wherein melted glass having a temperature of 710°C or less is formed and cooled to manufacture a formed glass article comprised of the near-infrared light-absorbing glass according to claim 7.
17. Copper-containing glass comprised of fluorophosphate glass or phosphate glass comprising 0.1 weight percent or more of copper based on CuO, 0.005 to 0.5 weight percent of iron based on Fe<sub>2</sub>O<sub>3</sub>, 0.01 to 1 weight percent of antimony based on Sb<sub>2</sub>O<sub>3</sub>, and no arsenic.
18. The copper-containing glass according to claim 17, wherein the glass exhibits properties, in the spectral transmittance of wavelengths of 400 to 1,200 nm, based on a thickness of 0.45 nm,  
that wavelength ( $\lambda_{50}$ ), at which a 50 percent transmittance is exhibited, ranges from 605 to 625 nm,  
transmittance at a wavelength of 400 nm is 80 percent or more,  
and

transmittance at a wavelength of 1200 nm is less than 22 percent.

19. The copper-containing glass according to claim 17, wherein the glass comprises, denoted as cationic percentages,

$P^{5+}$  11 to 43 percent

$Al^{3+}$  4 to 16 percent

$R_1^{+}$  0.1 to 43 percent

(where  $R_1^{+}$  is the total of  $Li^{+}$ ,  $Na^{+}$ , and  $K^{+}$ )

$R_2^{2+}$  12 to 53 percent

(where  $R_2^{2+}$  is the total of  $Mg^{2+}$ ,  $Ca^{2+}$ ,  $Sr^{2+}$ ,  $Ba^{2+}$ , and  $Zn^{2+}$ )

$Cu^{2+}$  1.0 to 4.7 percent,

as well as comprises  $F^{-}$  and  $O^{2-}$  as anionic components.

20. The copper-containing glass according to claim 19, wherein the glass does not comprise a nitrate.

21. A near-infrared light-absorbing element comprised of the copper-containing glass according to claim 17.

22. A near-infrared light-absorbing filter comprising the near-infrared light-absorbing element according to claim 21.